

ABSTRACT

PROCESS FOR CONTROLLING THE TEMPERATURE HOMOGENEITY OF THE PRODUCTS IN AN IRON AND STEELWORKS REHEAT FURNACE, AND REHEAT FURNACE

Process for controlling the temperature homogeneity of iron and steel products (2) in a reheat furnace (1) equipped with lateral burners, according to which process the lateral burners are operated in bang bang mode, and the operating and stoppage time of each burner is adjusted to obtain the desired temperature. Spread-flame burners (B1-B4) are chosen as lateral burners; these burners are operated at a regime close to the maximum regime or at the maximum regime, and the order of ignition of the burners (B1-B4) is chosen to promote the swirling and the circulation of the flue gases so as to reduce the hot point of the flame and to obtain a better temperature homogeneity of the walls of the furnace and of the products.

(Figure 4)